

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) An optical connector device, comprising:

a ~~two-dimensional sheet-like~~ optical waveguide layer;

a semiconductor laser having a function capable of ~~switching a plurality of different oscillation modes~~ changing a radiation angle of a light; and

an optical path ~~converting~~ changing structure for ~~converting~~ changing an optical path of ~~an outgoing~~ the light from the semiconductor laser~~[,]~~; and

~~wherein the optical path converting structure is disposed within the two-dimensional optical waveguide layer such that a radiation angle of the semiconductor laser changes within the two-dimensional optical waveguide layer upon switching over the oscillation mode of the semiconductor laser, and the outgoing light from the semiconductor laser propagates in the two-dimensional light-receiving elements for receiving the light from the semiconductor laser through the sheet-like optical waveguide layer.~~

2. (Currently Amended) An optical connector device according to claim 1, comprising:

~~wherein the semiconductor laser is a vertical cavity surface emitting laser formed with a current constricting layer in a vicinity of an active layer composing the~~

semiconductor laser radiation angle is changed by an injection current, an applied voltage or temperature control.

3. (Currently Amended) An optical connector device according to claim [[2]]1, comprising:

~~wherein the oscillation mode of the vertical cavity surface emitting laser is switched by control of at least one of a shape of an aperture (current path) of the current constricting layer and an injection current amount of the vertical cavity surface emitting laser~~ optical path changing structure is disposed within the sheet-like optical waveguide layer.

4. (Currently Amended) An optical connector device according to claim [[3]]1, comprising:

~~wherein the control causes a change in a radiation angle of a far field image of the semiconductor laser is a surface-emitting laser.~~

5. (Currently Amended) An optical and electrical circuit combined board, comprising the optical connector device according to claim [[1]]4, comprising:  
~~formed so as to obtain electrical connection with an electrical circuit board,~~  
~~wherein a part of or whole signals from the electrical circuit board are transmitted by optical circuit as transmission of optical signals using the optical connector device~~

wherein a surface-emitting laser is formed with a current blocking layer in a vicinity of an active layer.

6. (New) An optical connector device according to Claim 1, comprising:  
wherein the radiation angle of the image is the radiation angle of a far-field image.
  
7. (New) An optical and electrical wiring combined substrate, comprising:  
the optical connector device according to claim 1 formed so as to obtain electrical connection with an electrical circuit board,  
wherein a part of or whole signals from the electrical circuit board are transmitted by optical wirings as transmission of optical signals using the optical connector device.